International application No.

DCM / TD2004/017466

		·	PCT/JP2	2004/017466
	CATION OF SUBJECT MATTER F16D13/62, 13/68			
According to Int	ternational Patent Classification (IPC) or to both nation	al classification and IF	PC	
B. FIELDS SE				
Minimum docun Int.Cl	nentation searched (classification system followed by c F16D13/00-13/76, F16B19/06	lassification symbols)		
Documentation s	searched other than minimum documentation to the ext	ent that such documen	ts are included in th	e fields searched
Jitsuyo	Shinan Koho 1922–1996 J:	itsuyo Shinan T oroku Jitsuyo S	oroku Koho	19962005 19942005
Electronic data b	pase consulted during the international search (name of	data base and, where p	oracticable, search to	erms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Y	JP 2002-195290 A (Kabushiki 10 July, 2002 (10.07.02), Column 1, lines 1 to 29; column 10, line 19; Figs. 1 (Family: none)	umn 4, line 4		1-19 ·
Y	JP 9-177821 A (Fichtel & Sachs AG.), 11 July, 1997 (11.07.97), Column 1, line 45 to column 2, line 12; column 3, line 24 to column 5, line 10; Fig. 1 & DE 19545972 A1 & GB 2307958 A & US 5779018 A		1-35	
× Further do	ocuments are listed in the continuation of Box C.	See patent far	mily annex.	
"A" document d	gories of cited documents: lefining the general state of the art which is not considered ticular relevance	date and not in o		ernational filing date or priority ation but cited to understand nvention
"E" earlier appli filing date	ication or patent but published on or after the international which may throw doubts on priority claim(s) or which is	considered nov		claimed invention cannot be dered to involve an inventive
cited to est special rease "O" document re "P" document p	ablish the publication date of another citation or other on (as specified) eferring to an oral disclosure, use, exhibition or other means ublished prior to the international filing date but later than	"Y" document of par considered to i combined with o being obvious to	ticular relevance; the onvolve an inventive one or more other such a person skilled in the	claimed invention cannot be step when the document is documents, such combination e art
	date claimed	"&" document memb	per of the same patent	family

Name and mailing address of the ISA/

Date of the actual completion of the international search 02 February, 2005 (02.02.05)

Authorized officer

Date of mailing of the international search report

22 February, 2005 (22.02.05)

Japanese Patent Office

Telephone No.

Form PCT/ISA/210 (second sheet) (January 2004)

Facsimile No.

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PCT/JP2004/017466

). DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category*	Citation of document, with indication, where appropriate, of the relevant passages	1-35
Y	JP 10-141387 A (Exedy Corp.), 26 May, 1998 (26.05.98), Column 1, line 1 to column 2, line 9; column 5, line 31 to column 14, line 4; Figs. 1 to 10 & DE 19739974 A1 & GB 2317208 A & US 5878857 A	1-35
Y	JP 2002-181072 A (Across Co., Ltd.), 26 June, 2002 (26.06.02), Column 1, lines 1 to 42; column 7, lines 26 to 49; column 8, line 1 to column 15, line 8; Figs. 1 to 12 (Family: none)	1-35
Y .	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 64529/1978 (Laid-open No. 167251/1979) (Sankyo Denki Kabushiki Kaisha), 24 November, 1979 (24.11.79), Full text; all drawings (Family: none)	9
Y ~J	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 31632/1972 (Laid-open No. 104971/1973) (Nakanishi Metal Works Co., Ltd.), 06 December, 1973 (06.12.73), Full text; all drawings (Family: none)	10
Y	JP 9-250556 A (Exedy Corp.), 22 September, 1997 (22.09.97), Column 1, line 1 to column 2, line 4; column 2, line 46 to column 7, line 25; Figs. 1 to 4 & EP 797016 A2 & US 5904234 A	14-15
Y .	JP 59-133829 A (Luk Lamellen und Kupplungsbau GmbH.), 01 August, 1984 (01.08.84), Page 6, upper right column, line 19 to page 8, upper right column, line 19; Figs. 1 to 3 & DE 3248119 A1 & GB 2133115 A & US 4548309 A	16-18
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 24349/1987(Laid-open No. 132127/1988) (Aisin Seiki Co., Ltd.), 30 August, 1988 (30.08.88), Full text; all drawings (Family: none)	16,17,19

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ .	JP 60-205022 A (AUTOMOTIVE PRODUCTS P.L.C.), 16 October, 1985 (16.10.85), Page 1, lower left column, line 4 to page 2, lower left column, line 20; page 3, upper right column, line 19 to page 4, lower right column, line 14; Figs. 1 to 3 & EP 153078 A1 & GB 2154288 A	20-35
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 112018/1990 (Laid-open No. 68226/1992) (Atsugi Unisia Corp.), 17 June, 1992 (17.06.92), Full text; all drawings (Family: none)	20-35
Υ _.	US 1524771 A (Clarence G. WOOD), 03 February, 1925 (03.02.25), Page 1, line 72 to page 2, line 40; all drawings (Family: none)	20-35
Y	GB 2300233 A (FICHTEL & SACHS AG), 30 October, 1996 (30.10.96), Page 5, line 8 to page 7, line 25; all drawings & DE 19514808 A1 & US 5720373 A	20-35
Y	JP 2-203029 A (Borg-Warner Automotive GmbH.), 13 August, 1990 (13.08.90), Page 1, lower left column, line 5 to page 2, upper left column, line 18; page 4, lower left column, line 5 to page 5, lower right column, line 17; Figs. 1 to 4 & EP 372118 A1 & US 4967893 A	23,25-28,33
Y	US 1896025 A (PACKARD MOTOR CAR CO.), 31 January, 1933 (31.01.33), Page 1, lines 74 to 93; Figs. 1, 3 (Family: none)	24
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 146968/1977(Laid-open No. 73463/1979) (Stanley Electric Co., Ltd.), 25 May, 1979 (25.05.79), Full text; all drawings (Family: none)	29,30

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: A common matter pertaining to the inventions in Claims 1-35 is "a clutch disk assembly having a carbon friction plate and a clutch disk body having disk-like input part and output part in which the inner peripheral part of the friction plate is connected to the outer peripheral part thereof". The result of search reveals that the clutch disk assembly is not novel since it is disclosed in, for example, Document 1: JP 9-177821 A (Fichtel & Sachs AG.)11 July, 1997 (11.07.97), line 45, column 1- line 12, column 2, line 24, column 3-line 10, column 5, Fig. 1, and Document 2: JP2002-181072 A (Across Co., Ltd.), (continued to extra sheet) 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet(2)

26 June, 2002 (26.06.02), lines 1-42, column 1, line 1, column 8-line 8, column 5, Figs. 1-12.

Since the clutch disk assembly makes no contribution over the prior art, the common matter is not a special technical feature in the meaning of the second sentence of PCT Rule 13.2.

As a result, there is no common matter to all the inventions in Claims 1-35.